

ECOTOXIC

KEEP OUT OF REACH OF CHILDREN

 **racle[®]**

HERBICIDE

Contains: 380g/litre oxadiazon in the form of a suspension concentrate

**Selective herbicide for weed control in
certain fruit crops, onions, and shelterbelts**

160303



PLEASE READ THE ENTIRE LABEL BEFORE USE. SHAKE WELL BEFORE USE.

HAZARD CLASSIFICATION: 6.3B, 6.4A, 6.5B, 6.7B, 6.8B, 6.9B 9.1A, 9.2A,

APPROVED HANDLER: This product must be under the personal control of an approved handler during use. See MSDS for full details.

RECORD KEEPING: Records of use as described in the current version of NZS 8409 Management of Agrichemicals must be kept in certain circumstances. See MSDS for full details.

HARMFUL: May cause skin and eye irritation. Avoid skin or eye contact. May cause skin sensitization from prolonged skin contact. Suspected of causing cancer. May cause reproductive/development damage from repeated oral exposure. May cause organ damage from repeated oral exposure at high doses.

FIRST AID: If swallowed DO NOT induce vomiting. For advice, contact the National Poisons Centre 0800 Poison (0800764 766) or a doctor immediately. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. DO NOT scrub the skin. If concentrate is splashed in the eyes, flush with running water immediately for 15 minutes..

PERSONAL PROTECTION: When mixing or applying, avoid contact with skin and eyes. Wear full protective clothing, gloves and goggles. Do not eat or drink while using. Wash hands and face before meals and after work. Wash protective clothing after work.

ECOTOXIC: Very toxic to aquatic organisms with long-lasting effects. Avoid contamination of any water supply with product or empty container. Very toxic to the soil environment.

STORAGE: Store in original container tightly closed and in a dry, cool, well ventilated area away from fertilisers, feed, seeds and foodstuffs. Store in accordance with NZ 8409 Management of Agrichemicals.

DISPOSAL: Triple rinse empty container and add rinsate to the spray tank. If recycling, discard cap and deliver clean container to an Agrecovery depot. Alternatively crush and bury in a approved landfill. Dispose of product only by using according to the label, or at approved disposal facility.

MATERIAL SAFETY DATA SHEET: Additional information is listed in the MSDS available from Zelam Ltd or www.zelam.com.

Approved pursuant to the HSNO Act 1996, No HSR000541 See www.epa.govt.nz for approval conditions.

Registered pursuant to the ACVM Act 1997, No. P008453 See www.foodsafety.govt.nz for registration conditions.

GENERAL DIRECTIONS: Oracle is a residual pre-emergence herbicide recommended for the control of grass and broad-leaved weeds in onions and certain fruit crops. It has little knockdown activity so other methods must be used to ensure a weed free crop prior to application. Oracle will give control of many broad-leaved and grass weeds for up to six weeks.

WEEDS CONTROLLED: Annual poa, Barley grass, Barnyard grass, Bittercress, Black nightshade, Broad-leaved plantain, Browntop, Cleavers, Combind, Creeping buttercup, Crested dogstail, Crowfoot grass, Cut-leaved geranium, Docks, Fathen, Field speedwell, Fumitory, Galinsoga, Giant buttercup, Green bristle grass, Groundsel, Italian ryegrass, Kentucky bluegrass, Mouse-ear chickweed, Narrow-leaved plantain, Nettle, Oxalis corniculata, Oxalis latifolia, Oxalis stricta, Paspalum, Perennial nettle, Portulaca, Rough-stalked meadow grass, Red clover, Red deadnettle, Redroot, Scrambling fumitory, Scrambling speedwell, Shepherd's purse, Small-flowered geranium (Doves foot), Smooth witchgrass, Sowthistle, Spurrey, Stinking mayweed, Subterranean clover, Suckling clover, Summer grass, Sunspurge, Timothy grass, Twincress, White clover, White deadnettle, Wild turnip, Willow weed, Wireweed, Witchgrass, Yorkshire fog.

WEEDS PARTIALLY CONTROLLED: Greater bindweed Scotch thistle Small-flowered mallow Field pansy.

RESISTANT WEEDS: Chickweed, Pearlwort and most rhizomatous weeds will not be controlled.

WHEN TO APPLY: For maximum effectiveness Oracle must be applied to bare soil before weed emergence. It is important after treatment not to disturb the soil surface by cultivation. Activity is dependent on adequate moisture being present at the soil surface, irrigation is recommended during dry conditions. Oracle acts best on young plants up to the 2 leaf stage. Older plants are more resistant and may suffer only a slight check. Post-emergence application can be made to Oxalis spp and cleavers or field bindweed plants with stems less than 30cm in length. Apply in late winter or very early spring onto moist soil.

NOTE: Oracle must not be incorporated into the soil. Do not plant seed or transplant sensitive crops into treated soil within 90 days of applying Oracle. Oracle must not be used in or on covered crops.

APPLICATION RATES: Onions: Use 2 litres Oracle per hectare, apply to a weed-free crop when the onions have developed 4 leaves, ensure good leaf wax is present. Under soft growing conditions, for better crop tolerance, apply two applications of 1 litre per hectare at 21 day intervals between the 4-6 leaf growth stage.

Other Crops: Use 4 litres Oracle in a minimum of 600 litres of water/hectare as a directed spray. Use low pressure (less than 150kPa) to minimise drift. Ensure complete spray coverage of the soil surface and/or target weeds.

Pip and Stone Fruits, Brambles, Raspberries, Bushfruit and Shelterbelts: Directed applications avoiding spray contacting buds or foliage should be made to bare soil beneath the bushes or trees before bud-burst or 2-4 weeks after fruit set.

Vineyards: Directed applications should be made to bare soil beneath the vines using suitable equipment. Treat before budburst or after the vines have developed 10 leaves per shoot. Do not treat young vines in the year of planting until growth has reached the first wire. A second application can be made if the residual film is disturbed and weeds start to emerge, avoiding spray drift onto foliage.

MIXING: Half fill spray tank with water, with agitation running, add the required amount of Oracle, top up with water and agitate thoroughly before use.

EQUIPMENT: Apply using accurately calibrated and maintained equipment in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409). Flush spray equipment thoroughly with water after use.

It is an offence for the users of this product to cause residues exceeding the relevant MRL in the NZ (Maximum Residues of Agricultural Compounds) Food Standard.

Withholding Period: 60 days.

RESISTANCE MANAGEMENT: **GROUP E HERBICIDE** Oracle contains oxadiazon, an oxadiazole herbicide that inhibits protoporphyrinogen oxidase.

Certain weed biotypes resistant to Oracle and related group E herbicides could exist or develop due to natural genetic variation. To minimise the risk of any resistant plants dominating the weed population use strictly in accordance with label instructions. Do not use group E herbicides exclusively and follow sound resistance management strategies. For further information see www.resistance.nzpps.org

NOTICE TO BUYER: The manufacturer and vendors of Oracle warrant the formulation to contain the specified active ingredient within accepted tolerance but make no warranty of any kind on the uses of material and accept no responsibility, whether the material is used in accordance with the label directions or not.

REGISTERED TO: Zelam Ltd, Hudson Rd, New Plymouth, New Zealand.

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